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-	8	((("5537458") or ("5619508") or ("5778024") or ("5809415") or ("5559870") or ("5436960") or ("6014089") or ("5434911")) .PN.	USPAT; US-PGPUB	2002/12/13 20:02
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-	4	(gms adj type) and modem	USPAT; US-PGPUB	2002/12/13 20:33
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Young Yong Kim , San-qi Li
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J. G. Markoulidakis , G. L. Lyberopoulos , M. E. Anagnostou
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Traffic analysis for third generation mobile telecommunication systems should take into account a variety of services (e.g., voice, data, video) and "environments" (private, public outdoor, public indoor) as well as the user mobility behavior. The analytical traffic model presented in this paper incorporates all the above mentioned features. The model utilizes a set of simplifying assumptions regarding the distribution of certain random time intervals (e.g., call duration and &l ... | 82% |
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 Jean-Paul M. G. Linnartz
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 Cellular frequency reuse is known to be an efficient method to allow many wireless telephone subscribers to share the same frequency band. However, for wireless data and multi-media communications optimum cell layouts differ essentially from typical solutions for telephone systems. We argue that wireless radio systems for bursty message traffic preferably use the entire bandwidth in each cell. Packet queuing delays are derived for a network with multipath fading channels, shadowing, path loss ...
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 In this paper, we investigate the issue of error control in wireless communication networks. We review the alternative error control schemes available for providing reliable end-to-end communication in wireless environments. Through case studies, the performance and tradeoffs of these schemes are shown. Based on the application environments and QoS requirements, the design issues of error control are discussed to achieve the best solution.
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 It is not an easy task in the UMTS environment to effectively design the transport and the management of traffic belonging to multimedia teleservices among those defined by ITU Recommendations, due to the hard communication requirements which this kind of application can call for. In this paper the results of an overall research work, dealing with an effective management of "multimedia" and "multi-requirement" services in enhanced third-generation mobile radio systems ...
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 Andrea Baiocchi , Fabrizio Sestini
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In this paper we focus on the so-called load-adaptive Dynamic Channel Allocation (DCA) strategies for cellular mobile networks. Such strategies envisage the dynamic assignment of radio resources with the constraint that the outage probability (i.e. the probability that the carrier-to-interference power ratio be less than a given threshold) be less than a specified value, even in the worst foreseen propagation scenario. We identify a set of constraints to be satisfied in order that a DCA str ...

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In third generation mobile telecommunication systems, signalling requirements due to location updating and paging are expected to be remarkable, mainly because of the huge number of mobile subscribers. Location area planning is characterised by the trade-off between the number of location updates and the amount of paging signalling that the network has to deal with. Location area planning should be based on criteria which guarantee that signalling load will be kept under tolerable levels. V ...

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8 A packet radio protocol for group communication suitable for the GSM mobile radio network*Decker, P.*

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